BRUHATH BANGALORE MAHANAGARA PALIKE

Dasarahalli Zone

NAME OF WORK :	**Modified Estimate for Improvements & Construction of CC Road, drain & RCC Culverts at Dasarahalli Old Village in Dasarahalli Ward No.15**

Estimated Cost	**19.95**	**Lakhs**

Sl.No.	Description of work	Measurments				Qty	Unit	Rate	Amount
		No.s	L	B	D				
1 EIRL ITEM	Earthwork excavation by manual means in hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work..(PWD SR 2015-16, Page No.141, Item No. 19.1)								
	for cc road	1	1	40.00	3.50	0.30	42.00		
					Total qty.		**42.00**	**cum**	**81.06**	**3405.00**
2 EIRL ITEM	KSRB 2-2.2: Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead up to 50 m. after breaking of clods complete as per specification. Specification. No. KBS 2.1(a)/2.3.5[P.No.5-I.No.2.3]								
	for rcc drain	1	1	30.00	1.20	0.75	27.00		
	"	1	1	40.00	0.90	0.60	21.60		
	"	1	1	90.00	1.20	0.90	97.20		
	"	1	1	39.00	0.90	0.75	26.32		
	for culvert	1	1	3.50	1.50	1.10	5.77		
		1	1	6.75	1.50	1.10	11.13		
					Total qty.		**189.02**	**sqm**	**187.38**	**35419.00**
3	KSRB 4 -1.3 : Providing and laying in position plain cement concrete of mix M7.5with OPC cement @ 180 kgs, with 40 mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregates @ 0.57 cum machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation and plinth,including cost of all materials, labour HOM of machinery curing complete as per specifications. Specification No.KBS 4.1, 4.2 (PWD SR 2014-15, Page No.12, Item No. 4.3)								
	for rcc drain	1	1	30.00	1.20	0.15	5.40		
	"	1	1	40.00	0.90	0.15	5.40		
	"	1	1	90.00	1.20	0.15	16.20		

	"	1	1	39.00	0.90	0.15	5.26			
	for culvert	1	1	3.50	1.50	0.15	0.78			
	"	1	1	6.75	1.50	0.15	1.51			
	for concrete road	1	1	40.00	3.50	0.15	21.00			
					Total qty.		**55.55**	**cum**	**4643.00**	**257919.00**
4 EIRL ITEM	KSRB 4.2.8: Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded gramire metal coarse aggregates @ 0.69cum and fine aggregates @ 0.46cum, with suplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed -2008, machine mixed, concrete laid in layers not exceeding 15cms thck, vibrated for all the works in ground floor level for roof slabs, stair case, lintels, and beams retaining walls, return walls, walls (any thickness) including attached plasters, columns. pillars, posts, struts,butteresess, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets.etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications.Specification No.KBS 4.1,4.6 Pg.No.13, It.no.4.11)									
	for rcc drain	1	1	30.00	1.20	0.15	5.40			
	"	1	1	40.00	0.90	0.15	5.40			
	"	1	1	90.00	1.20	0.15	16.20			
	"	1	1	39.00	0.90	0.15	5.26			
	side walls	1	2	30.00	0.15	0.75	6.75			
		1	2	40.00	0.15	0.75	9.00			
		1	2	90.00	0.15	0.75	20.25			
		1	2	39.00	0.15	0.75	8.77			
	for culvert	1	1	3.50	1.50	0.15	0.78			
	"	1	1	6.75	1.50	0.15	1.51			
	side walls	1	2	3.50	0.30	0.75	1.57			
		1	2	6.75	0.30	0.75	3.03			
	culvert slab	1	1	3.50	1.50	0.20	1.05			
	aprroaches	1	2	3.50	0.40	0.10	0.28			
	culvert slab	1	1	6.75	1.50	0.20	2.02			
	aprroaches	1	2	6.75	0.40	0.10	0.54			
	for concrete road	1	1	40.00	3.50	0.15	21.00			
		1	1	30.00	3.10	0.15	13.95			
					Total qty.		**122.76**	**cum**	**6041.31**	**741631.00**

5 EIRL ITEM	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and /or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. (TMT bars Fe 500) Specification No. KBS 4.6.3. [P. no.17 - I. no.4.46.2]									
	Rate=Basic rate + 8% of B.R(area weightage) =64635.00+5170.80=69805.80/ton									
	for roads	35kg/cum					1223.25			
	for drains	45kg/cum					3503.25			
	for Culvert	81kg/cum					806.76			
							5533.26	kgs		
						Total qty.	**5.53**	**ton**	**68039.70**	**376260.00**
6 EIRL ITEM	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc,. And removal of form work for **vertical surface** such as walls at any thickness, includig attached pilasters, butresses, plinth cills and string courses cost of all materials, labour complete as per specifications. (Pg. No.15, It. No.4.31)									
	Rate=Basic rate + 8% of B.R(area weightage) =284.00+22.72=306.72/sqm									
	for drain	4	1	30.00		0.75	90.00			
		4	1	40.00		0.75	120.00			
		4	1	90.00		0.75	270.00			
		4	1	39.00		0.75	117.00			
	for Culvert	4	1	3.50		0.75	10.50			
		4	1	6.75		0.75	20.25			
	culvert slab	1	1	3.50		0.90	3.15			
	alround sides	1	2	10.00		0.20	4.00			
	culvert slab	1	1	6.75		0.90	6.08			
	alround sides	1	2	8.25		0.20	3.30			
					Total qty.		**644.28**	**sqm**	**298.96**	**192612.00**
7	Supplying and fixing precast reinforced concrete slab 10 cm thick of mix M20 using 20mm and downsize graded granite metal using reinforcement 10mm dia steel at 150mmc/c bothways cost, transportation, hire charges of machinery, machine cutting the vertical face to get plain even surface etc., complete with all leads and lift conveyance charges, labour charges inclusive of cost of all materials - Data rate approved by Chief Engineer, Dasarahalli zone									
	Rate=Data rate approved by CE i.e, =1600/sqm									
		1	1	30.00	0.90		27.00			
		1	1	40.00	0.90		36.00			
		1	1	90.00	0.90		81.00			
		1	1	39.00	0.90		35.10			
					Total qty.		**179.10**	**sqm**	**1600.00**	**286560.00**
8 EIRL ITEM	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery,screed vibratory,power Floater,blade and disc etc., with all lead and lift PWD SR 2015-16[P.No.174-I.No.22.7]									
	Rate=Basic rate + 8% of B.R(area weightage) =90.00+7.20=97.20/sqm									
	cc road	1	1	40.00	3.50		140.00			
					Total qty.		**140.00**	**sqm**	**94.74**	**13264.00**

9	Disposal of debris to the final place of disposalwith all lead and lift and as direction by the engiineer in charge of work lead 4km (P. 118 and 124 / Item No. 17.1 and 17.4) a)Basic ratre for haulage of materials as per Item No.17.4/KSSRRB:M-1004.1…. Rs 2.00 Tonne/Km B) Avearage earth work 1.28 tonne/km C)add loading and unloading complete as per specifiacations and direction of Enginee-in-charge of the work								
	qty vide item no.1 &2					231.02			
						231.02			
				upto 125%		**183.49**	**cum**	**69.00**	**12661.00**
				above 125%		**47.53**	**cum**	**70.60**	**3356.00**
								Total	**1923180.00**

(Rupees Nineteen Lakhs Twenty three thousand One hundread eighty Only)

CERTIFICATE

1 *Certified that The work spot has been inspected by me and the work is necessary & site condition*
2 *Certified that the work is not split up*
3 *Certified that the estimate is based on PW,P&IWTD Bangalore Circle SR of 2014-15 & 2015-16*
4 *Certified that Adequate & necessary provisions have made in the estimate.*
5 *Certified that the above area comes under BBMP limit*

Asst Engineer
Ward-15

Assistant Executive Engineer
Dasarahalli Sub Division
B.B.M.P

Excecutive Engineer
Dasarahalli Division
B.B.M.P

EXECUTIVE ENGINEER
Bruhat Bangalore Mahanagara Palike
Dasarahalli Division, Bangalore-560057

ನಂ. CE/TS/56/2016-17 ದಿನಾಂಕ : 20-10-2016
ರೂ. 19,23,180/- Nineteen lakhs Twenty Three Thousand one Hundred Eighty only
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.
ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.
ತಾಂತ್ರಿಕ ಸಹಾಯಕರು